## CLAIMS

## We claim:

- A crystalline 7β-[(Z)-2-(2-amino-4-thiazolyl)-2-hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (Crystal B of Cefdinir) which shows peaks in its powder X-ray diffraction pattern at the diffraction angles of about 5.8±0.2, 11.7±0.2, 16.1±0.2, 18.6±0.2, 20.9±0.2, 22.2±0.2, 24.4±0.2 and 25.6±0.2 two theta degrees.
- Crystalline substance of claim 1 which is characterized by infrared absorption spectrum pattern having characteristic peaks at approximately 1017, 1049, 1121, 1134, 1191, 1428, 1545, 1613, 1667, 1780, 3295 and 3595 Cm<sup>-1</sup>.
  - Crystalline substance of claim 1, which contains water in the range of
    to 7.0% by weight.

4. A process for preparing crystalline 7β-[(Z)-2-(2-amino-4-thiazolyl)-2 hydroxyiminoacetamido]-3-vinyl-3-cephem-4-carboxylic acid (Crystal B of cefdinir) which comprises the steps of:

Reacting crystals A of cefdinir in water with trifluoroacetic acid at 35-40°C to form cefdinir trifluoroacetic acid salt,

optionally isolating the said cefdinir.trifluoroacetic acid salt, neutralizing the said cefdinir.trifluoroacetic acid salt by treatment with a base in water at a temperature between 0°C to 30°C,

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isolating crystal B of cefdinir by filtration.

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- 5. The process according to claim 4, wherein the base used for neutralization is preferably ammonia.
- 6. The process according to claim 4, wherein, the said neutralization step is conducted at a temperature range of 0-30°C and preferably at 20-25°C.
- 7. A pharmaceutical composition comprising a therapeutically effective amount of Crystal B of cefdinir and a pharmaceutically acceptable carrier.